
ENGINEERING STANDARDS UPDATE

[Standards are serious business](#), but this newsletter isn't.

Topics this month:

- **Goodbye Bill Kerley**
- **Training & Qual**
- **Interesting Global Construction Trivia**
- **Engineering Processes Changes**
- **LANL Standards Issued in February**
- **PM Procedure Changes**
- **DOE Technical Standards Action**
- **National Standards Action**
- **When Good Conduct of Engineering Isn't Followed**

The Standards Homepage: <http://engstandards.lanl.gov/>

GOODBYE BILL KERLEY

Bill left LANL last week, retiring March 23. He was a Deputy DL in Engineering Services starting in 2012 and contributed greatly to the division (even headed Conduct of Eng the second half of 2017). He'll live in the Knoxville area where he'll surely never forget the joys of working here (or Idaho or SRS before that). We wish him well.

Could Jeff Fauble be next?

TRAINING & QUAL

Be sure to attend these rarely taught live courses if you need them!

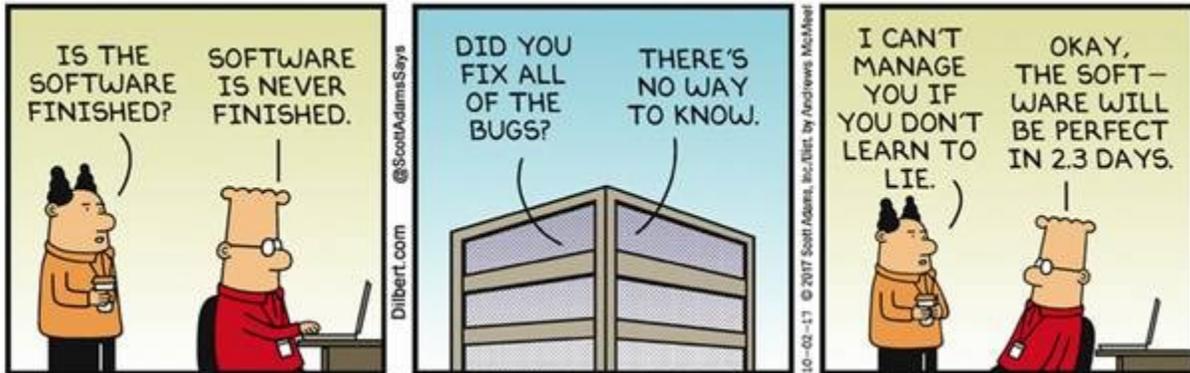
ESM Chapter 21 Software – Tues, March 13

Per [Ch. 21](#) Section SOFT-GEN, affected RLMs require 38047, Overview. Affected Software Owners (i.e., the POCs for a computer program) require both Course 38047–Overview and 34048–Owners. Courses will be in TA-55-0400 RLUOB Rooms 4503 and 4504, taught by Joy Getha as follows:

38047 ESM Chapter 21 Software Overview Course 9-11:30 a.m. (RLMs and Owners)
34048 ESM Chapter 21 Software Owner's Course 1-3 p.m. (just Owners return for this)

You'll need to print your own handout and bring it; we'll email the slides to print a few days prior. Waitlisters are already enrolled.

Note: Non-owner tech staff in ES-Div may take the a live course such as the overview, but if they don't they must take UTrain Required Reading 38040, which will show up in their to-do list if so. 38040 deadline was extended to March 30 mainly to accommodate those attending the Overview above (plus the procrastinators).



Standards Intro Course 24140 – Wed, April 11

Provides familiarity with national and LANL engineering standards for anyone performing, reviewing, or managing design activities. Also recommended for those at local AE firms. C-Div auditorium (TA-46-535, Room 103), runs 8 a.m.– 4 p.m. by yours truly. You'll need to print your own handout and bring it; we'll email the slides to print a few days prior. Waitlisters are already enrolled.

Registering for UTrain Courses

Sign up via [UTrain](#). Enter course number in search field, assign to yourself. Disenroll a similar way if you have to bail. AEs can also register; contact Yolanda Trujillo at 665-5696 or ytrujillo@lanl.gov with Z number.

INTERESTING GLOBAL CONSTRUCTION TRIVIA

From the International Code Council's Newsletter

Did you know?

The 60-story [John Hancock Tower in Boston is plagued by one of the more mysterious problems in skyscraper history](#). The tower's windows pop out unexpectedly and shatter on the street below. The building, completed in 1972, was less than a month old when suddenly dozens of its windows began pushing out for no discernible reason. All 10,334 windows were replaced with 400-pound sections of half-inch tempered glass, but the windows kept popping out. Today, the mystery remains unsolved, and windows occasionally still pop.

ENGINEERING PROCESSES CHANGES

The following Administrative Procedure has been revised and posted on the AP [SharePoint site](#):

AP-341-521-R1	Identification and Control of Critical Spare Parts Course 15625, when assigned.	Issued: 02/05/18
----------------------	---	----------------------------

Always ensure you are working to the latest revision being implemented by your facility. For questions about CoE engineering processes, please contact POC [Jeff Fauble](#) (5-0595). For training questions, contact [Yolanda Trujillo](#) at 665-5696.

LANL STANDARDS ISSUED IN FEBRUARY

ESM STD-342-100	
Ch. 13 Welding, Joining, & NDE, Vol. 6 NDE , ITM-1306-NDE-LT-101-R0 Bubble Leak—NEW!!!	Initial issue thanks to author Ari Ben Swartz, Level III Jane Lloyd, Kelly Bingham, and POC David Bingham.
Ch. 17 References	Reputable Manufacturers list updated. Thanks to POC Ari Ben Swartz.

Master Specifications STD-342-200	
07 1326 R1 Self-Adhering Sheet Waterproofing	Updating/correcting of references; updating current manufacturers, standards and products; and general formatting. Thanks to Arch POC Scott Richardson.
21 2200 R5 Clean Agent Fire-Extinguishing Systems	Revised seismic requirements in 1.2 for compliance with NFPA 2001-18 and MSS SP-127 (as well as IBC & ESM). Heading 1.3.C reworded. Other minor changes. Thanks to Glen Pappas and Fire POC Julie Wood.
22 1316 R4 Sanitary Waste and Vent Piping	Added Seismic Requirements, Updated model numbers, Updated Code References, added floor drain trap seal protection device. Thanks to POC Michael Ladach.
22 2400 R6 Plumbing Fixtures	Updated model numbers, modified selections to reflect those with water saving features. Thanks to POC Michael Ladach.
25 5000 R2 Integrated Automated Facility Controls	Referenced both div 25 and div 26 specs. Add statement that submittals are not needed if equipment is fully specified by manufacture and model number. Removed Alerton from acceptable installers. Updated references to Windows operating system. Fixed grammar in various locations. Changed ES-DE to ES-EPD in several locations. Changed references to div 16 to div 25. Deleted many old references to computer systems, such as 32-bit, or monitor resolutions. Changed LANL Network Engineering to NIE. Added manufacturers to some of the equipment. Removed requirement for panels to have keys. Added section 2.37 Power Supplies. Changed voltage to some equipment from 120 volts to 24 volts. Thanks to Scott Day, Eric Stromberg, and POC Allen Hayward.
32 9219 R4 Seeding	Focused on using native species that have demonstrated success for this area. Removed practices (straw mulch, cover crops) that do not work well. Updated product information. Made the specification easier to understand and implement. Thanks to authors Sam Loftin and Terrill Lemke.

PM PROCEDURE CHANGES (SELECTED)

These 350-series APs from PADCAP are applicable to projects subject to [SD350](#), *Project Management for Capital Asset Acquisition and Construction* (e.g., most anything involving capital funding, plus Environmental Programs and also some expense-funded projects over \$50k). Per Crystal Lucero, the APs are in the adpmdocs repository in [EDMS](#) (like the other PM docs; EDMS is under Top Tools on LANL homepage); if you have access issues, email project-dcrm@lanl.gov.

WI-400-115, R2, Self-Perform Procurement (2/2/2018)

Also revised: [SD350 \(Rev. 11\)](#) **Project Management for Capital Asset Acquisition and Construction** Minor Revision 2/21/2018. Summary of Changes: Minor revisions have been made to SD350 to reflect current spend requirements for GPP & IGPP Projects in accordance with CFO-B3037 "GPP/IGPP Financial Management" and DOE O 413.3B, Chg. 4. Also, Section 4.12 clarifies the role of "Facility Project Owner."

DOE TECHNICAL STANDARDS ACTION

STDs [postings](#) in the past month: None.

NATIONAL STANDARDS ACTION

LANL's [IHS online codes and standards](#) service reports these changes:

Document number: **ACI 315R, Guide to Presenting Reinforcing Steel Design Details**

Publication Date: **1/1/2018**

Type of Change: **Complete Revision**



WHEN GOOD CONDUCT OF ENGINEERING ISN'T FOLLOWED



LAST MONTH'S UPDATE TOPICS

Miss an issue? The archive is at "[Monthly Update](#)" on the [Standards homepage](#). Last month's topics:

- **National Engineers Week at LANL**
- **Training & Qual**
- **Interesting Global Construction Trivia**
- **LANL Standards Issued in January**
- **PM Procedure Changes**
- **LANL Publication and Style Guide Published**
- **DOE Technical Standards Action**
- **National Standards Action**
- **When Good Conduct of Engineering Isn't Followed**

The views expressed in this email are not necessarily those of my employer.
To request a change to this newsletter's distribution, please contact me.

Tobin Oruch, Engineering Standards Mgr
Los Alamos Nat'l Lab, Conduct of Eng Program Office
(505) 665-8475 oruch@lanl.gov <http://engstandards.lanl.gov/>
Please consider the environment before printing this or any email